M 5.5, 82 km WSW of San Antonio, Chile

PAGER
Version 5

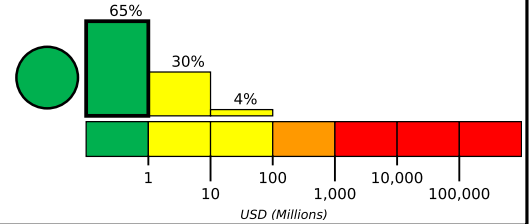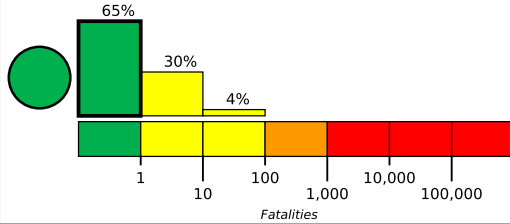Origin Time: 2021-04-22 00:17:15 UTC (Wed 19:17:15 local)
Location: 33.9889° S 72.3632° W Depth: 13.0 km

Created: 3 weeks, 1 day after earthquake

Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.
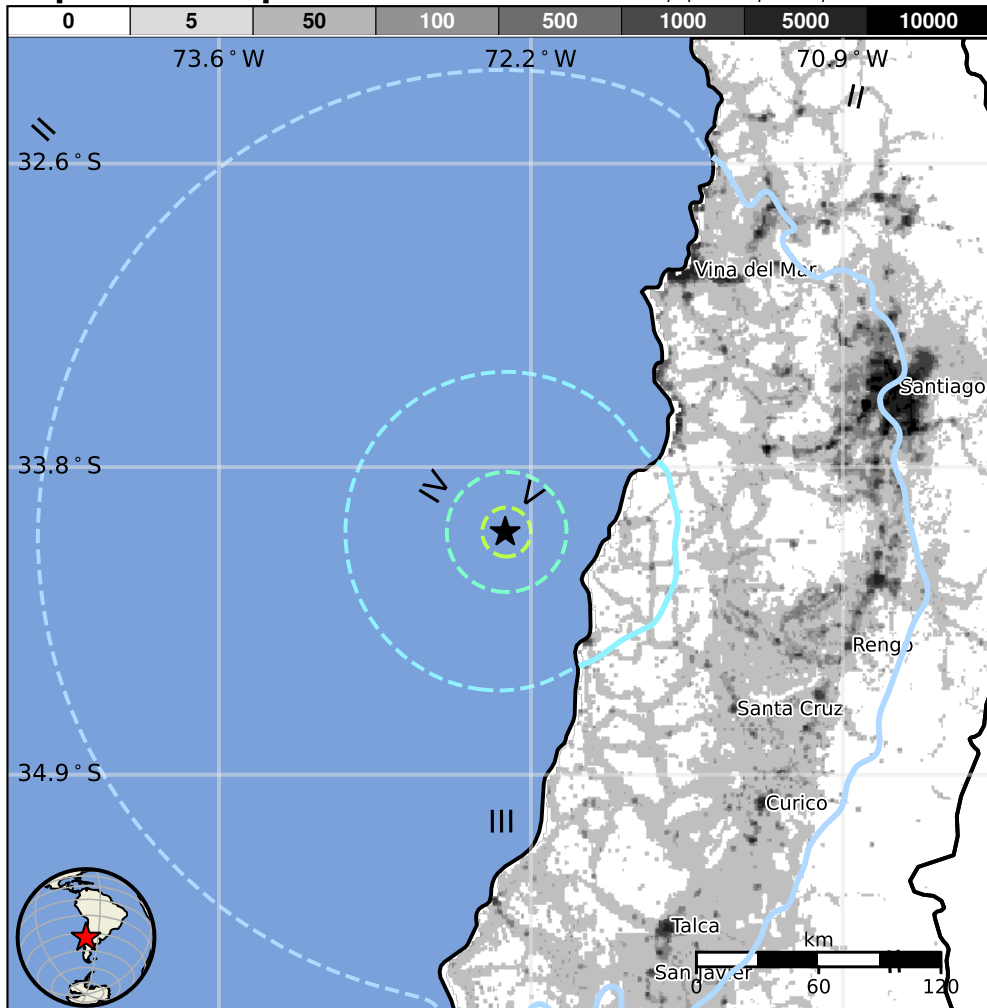
65% · 30% · 4%

1   10   100   1,000   10,000   100,000
Fatalities

Estimated Economic Losses

65% · 30% · 4%

1   10   100   1,000   10,000   100,000
USD (Millions)

Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		–*	11,130k	34k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan

| 0 | 5 | 50 | 100 | 500 | 1000 | 5000 | 10000 |

Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are adobe block and rubble/field stone masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1985-01-26	362	5.9	VIII(38k)	6
1997-10-15	362	7.1	VIII(3k)	7
1985-03-03	109	7.9	VII(5,319k)	177

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
III	San Antonio	86k
III	El Tabo	<1k
III	Cartagena	17k
III	Melipilla	63k
III	**Santa Cruz**	**33k**
III	San Vicente	23k
III	Valparaiso	282k
III	Rancagua	213k
III	**Talca**	**197k**
II	Puente Alto	510k
II	**Santiago**	**4,837k**

bold cities appear on map.   (k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.
https://earthquake.usgs.gov/earthquakes/eventpage/us6000e3j6#pager

Event ID: us6000e3j6